## CLAIMS

## What is claimed:

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- 1. A method for treating or preventing a tumor necrosis factor-mediated disease in an individual in need thereof comprising co-administering a tumor necrosis factor antagonist and a CD4+ T cell inhibiting agent to the individual, in therapeutically effective amounts.
- 2. A method of Claim 1 wherein the tumor necrosis factor 10 antagonist and a CD4+ T cell inhibiting agent are administered simultaneously.
  - 3. A method of Claim 1 wherein the tumor necrosis factor antagonist and a CD4+ T cell inhibiting agent are administered sequentially
- 15 4. A method of Claim 1 wherein the tumor necrosis factormediated disease is selected from the group consisting
  of: autoimmune disease, acute or chronic immune
  disease, inflammatory disease and neurodegenerative
  disease.
- 20 5. A method of claim 4 wherein the CD4+ T cell inhibiting agent is cyclosporin or analog thereof.
  - 6. A method of Claim 5 wherein the tumor necrosis factor antagonist is an anti-tumor necrosis factor antibody or fragment thereof.
- 25 7. A method of Claim 6 wherein the antibody is a chimeric antibody.

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- 8. A method of Claim 5 wherein the tumor necrosis factor antagonist is a receptor molecule which binds to tumor necrosis factor.
- 9. A method of Claim 8 wherein the receptor molecule is a tumor necrosis factor receptor/immunoglobulin G fusion protein.
  - 10. A method of Claim 5 wherein the tumor necrosis factor antagonist prevents or inhibits tumor necrosis factor synthesis, tumor necrosis release or its action on target cells.
  - 11. A method of Claim wherein the tumor necrosis factor antagonist is a phosphodiesterase inhibitor.
  - 12. A method of Claim 11 wherein the phosphodiesterase inhibitor is pentoxifylline.
- 13. A method of Claim 10 wherein the tumor necrosis factor antagonist is thalidomide.
  - 14. A method of Claim 1 wherein an anti-inflammatory agent is administered in conjunction with the CD4+ T cell inhibiting agent and the tumor necrosis factor antagonist.
  - 15. A method for treating or preventing rheumatoid arthritis in an individual in need thereof comprising administering to the individual cyclosporin or analog thereof in combination with a tumor necrosis factor antagonist, in the apeutically effective amounts.
  - 16. A method of Claim 15 wherein the tumor necrosis factor antagonist is an anti-tumor necrosis factor antibody

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or fragment thereof.

- A method of Claim 16 wherein the antibody is a 17. chimeric antibody.
- A method of Claim 15 wherein the tumor necrosis factor 18. antagonist is a receptor molecule which binds to tumor 5 necrosis factor.
  - A method of Claim 18 wherein the xeceptor molecule is a tumor necrosis factor receptor/immunoglobulin G fusion protein.
  - A method of Claim 15 wherein the tumor necrosis factor 20. antagonist prevents or inhibits tumor necrosis factor synthesis tumor necrosis factor release or its action on target cells.
  - 21. I method of Claim 20 wherein the tumor necrosis factor antagonist is a phosphodiesterase inhibitor.
  - A method of Claim 21 wherein the phosphodiesterase 22. inhibitor is pentoxifylline.
  - A method for treating or preventing Crohn's disease in 23. an individual in need thereof comprising administering to the individual cyclosporin or analog thereof in combination with a tumor necrosis factor antagonist, in therapeutically effective amounts.
  - A method of Claim 23 wherein the tumor necrosis factor 24. antagomist is an anti-tumor necrosis factor antibody or fragment thereof.

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A method of Claim 24 wherein the antibody is a 25.

chimeric antibody.

- 26. A method of Claim 23 wherein the tumor necrosis factor antagonist is a receptor molecule which binds to tumor necrosis factor.
- 27. A method of Claim 26 wherein the receptor molecule is a tumor necrosis factor receptor/immunoglobulin G fusion protein.
- 28. A method of Claim 23 wherein the tumor necrosis factor antagonist prevents or inhibits tumor necrosis factor synthesis, tumor necrosis factor release or its action on target cells.
- 29. A method of Claim 28 wherein the tumor necrosis factor antagonist is a phosphodiesterase inhibitor.
- 30. A method of Claim 29 wherein the phosphodiesterase inhibitor is pentoxifylline.
  - 31. A method for treating or preventing acute or chronic immune disease associated with a transplantation in an individual comprising administering to the individual cyclosporin or analog thereof in combination with a tumor necrosis factor antagonist, in therapeutically effective amounts.
  - 32. A method of Claim 21 wherein the transplantation is selected from the group consisting of: renal transplantation, cardiac transplantation, bone marrow transplantation, liver transplantation, pancreatic transplantation, small intestine transplantation, skin transplantation and lung transplantation.

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33. A method of Claim 31 wherein the tumor necrosis factor antagonist is an anti-tumor necrosis factor antibody or fragment thereof.
34. A method of Claim 33 wherein the antibody is a chimeric antibody.
35. A method of Claim 31 wherein the tumor necrosis factor

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antagonist is a receptor molecule which binds to tumor necrosis factor.

36. A method of Claim 35 wherein the receptor molecule is a tumor necrosis factor/immunoglobulin G fusion protein.

37. A method of Claim 33 wherein the tumor necrosis factor antagonist prevents or inhibits tumor necrosis factor synthesis, tumor necrosis factor release or its action on target cells.

- 38. A method of Claim 37 wherein the tumor necrosis factor antagonist is a phosphodiesterase inhibitor.
- 39. A method of Claim 38 wherein the phosphodiesterase inhibitor is pentoxifylline.
- 20 40. A composition comprising a tumor necrosis factor antagonist and a CD4+ T cell inhibiting agent.
  - 41. A composition of Claim 40 wherein the tumor necrosis factor antagonist is an anti-tumor necrosis factor antibody or fragment thereof.
- 25 47. A composition of Claim 41 wherein the antibody is a chimeric antibody and the CD4+ T cell inhibiting agent

is cyclosporin or an analog thereof.

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- 43. A composition of Claim 40 wherein the tumor necrosis factor antagonist prevents or inhibits tumor necrosis factor synthesis, tumor necrosis factor release or its action on target cells.
- 44. A composition of Claim 43 wherein the tumor necrosis factor antagonist is a phosphodiesterase inhibitor and the CD4+ T cell inhibiting agent is cyclosporin or an analog thereof.
- 10 45. A composition of Claim 44 wherein the phosphodiesterase inhibitor is pentoxifylline.